

REMARKS

In the Office Action dated November 8, 2010, the Examiner objected to claim 9, warned that claims 17 and 18 are substantial duplicates, rejected claims 9, 40 and 46 under 35 U.S.C. § 112, second paragraph, rejected claims 5, 6, 8, 17 – 20, 28, and 33 - 48 under section 112, first paragraph, and rejected claims 9 and 43 - 48 as obvious over Capeccchi in view of Seth.

Telephone Interview

Applicants thank the Examiner for reviewing the claims with Applicants' below signed representative. A proposed amendment to claim 33 was discussed in detail via telephone and was agreed to place the claim into allowable condition. The Examiner noted during the telephone discussion that no further prior art rejections are being imposed, that the Examiner will issue no further written actions in this application, and that any additional changes necessary will be handled by an Examiner's amendment. The Examiner's cooperation is noted with appreciation.

Claim Objection

The claims have been amended to compare the phenotype of claimed mouse to wild-type control mice in accordance with the Examiner's suggestions.

Double Patent Warning

Claims 18, 19 and 20 have been cancelled to address the double patent warning.

35 USC § 112, 2nd paragraph

Claims 9, 40 – 42 and 46 have been cancelled. The second 112 rejections are thereby overcome.

35 USC §103(a)

Claims 9 and 43 – 48 have been cancelled so that the rejection is moot.

Conclusion

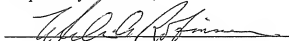
Each issue of the action has been addressed in the foregoing and the application has been placed into form for immediate allowance. In view of the amendments to the claims and the telephone discussions with the Examiner, the Applicants respectfully submit that the present invention is in condition for allowance.

In the event that any issues remain unresolved by this response, the Examiner is invited to contact the undersigned to work out a resolution.

Deposit Account Information

The Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to account no. 501519.

Respectfully submitted,



Melvin A. Robinson (Reg. No. 31,870)

Schiff Hardin LLP

Patent Department

233 S. Wacker Drive, Ste. 6600

Chicago, Illinois 60606

Telephone: 312-258-5785

CUSTOMER NO. 26574

ATTORNEY FOR APPLICANT